

SMART - COMET Project

Competence Management Model and Platform (IT Tool)

School-Enterprise
Cooperartion Studies (O2)

Communication Activities

















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About SMART COMET Project

Structural Method (SMART COMET) Project for Competence Management in Metal Industry

- Establishing a cooperation model between schools and enterprises including the competence management (COMET) approach for the metal industry and widening thereof on pilot basis and the establishment of a bridge between the vocational education and training institutions and the industry,
- The project is accomplished by aiming to establish the framework allowing the employees of the metal industry enterprises to achieve better results towards the business strategies by managing their competences more effectively as a model by addressing the experiences of the member States of the European Union.

Project Time Period: 12.12.2016 – 5.04.2019

Project Budget: € 225.640





Project Partners



Ministry of National Education Directorate General for VET:

The public institution that undertakes vocational and technical education determines vocational education policies.



MESS Training Foundation (MEV):

MESS Training Foundation is founded under the leadership of Turkish Employer's Association of Metal Industries (MESS) in 1986. It offers different training development programs for employees and students attending vocational and technical education.



DEKRA Akademie GMBH:

DEKRA Akademie is one of the leading educational providers in Germany and boasts more than 30 years of experience in vocational and further education.



FLM Fundacion Laboral Del Metal:

The employer organization of the metal industy located in Spain, offers training and consultancy services to more than 20.000 employees annually.







SMART COMET - Figures



23 Protocols with 21 Schools and 18 Enterprises



€ 225.640 Project Total Budget



700 Days of Effort



4 Different Enterprises Pilot application with 8 field workers































3 Different Countries (Germany, Turkey, Spain) 5 Visits Abroad

30 Days Working Visits

10 Enterprises – 14 Representatives

13 VET Representatives

10 Ministry Representatives

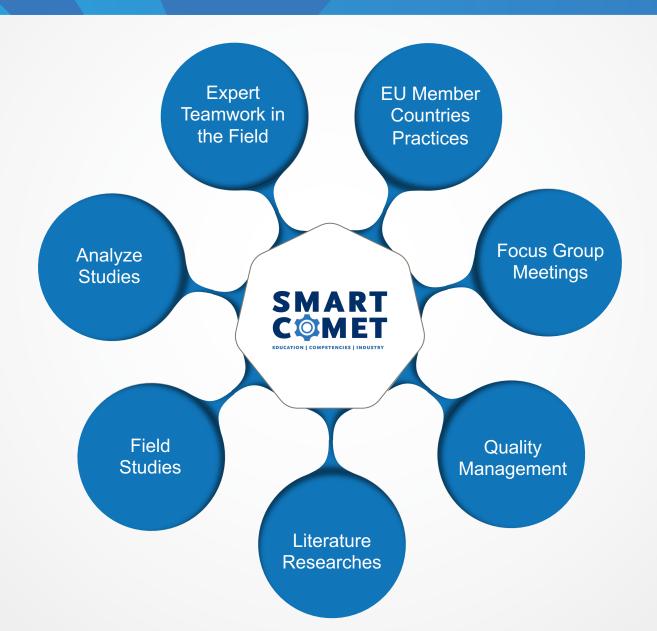
20 Civil Society Representatives

9 Provinces 17 Schools - Field Research with 75 participants





Project Studies







Quality Management

Quality Auditor:

- Hanna Schrankel / European Union Educational Projects Senior Consultant
- Quality Report 1 External Audit November 2017
- Quality Report 2 School-Enterprise Cooperation Evaluation Februrary 2018
- Quality Report 3 Working Visits Evaluation May 2018
- Quality Report 4 COMET Intermediary Evaluation October 2018
- Quality Report 5 Project Effort and Sustainability Evaluation December 2018
- Quality Report 6 Final Report Februrary 2019







Study Visits



Smart CometProject Outputs

C1 | C2



C1 Competence Managemet Model

Exam-Based System

- Exams and tests to measure technical competencies
- Certification



System Based on Technical Development

- Measuring and improving competencies
- Feedback Culture
- Sustainability

Business-Based System

Institution's own competence model



System Covering Overall Industry

- Qualifications recognized by the sector
- Consensus among industry institutions
- Free movement of labor within the metal industry





C1 - Competence Management / Pilot Practice

- Theoretical and practical application for Machine Maintanence (Level 3) was conducted with 8 field workers in 4 different enterprises.
 - Arçelik Çayırova Washing Machine Plant
 - Türk Traktör ve Ziraat Makineleri A.Ş
 - Ford Otomotiv Sanayi A.Ş
 - İçdaş Çelik Enerji Tersane ve Ulaşım Sanayi A.Ş



The model hes been applied in the field and development areas have been detected.





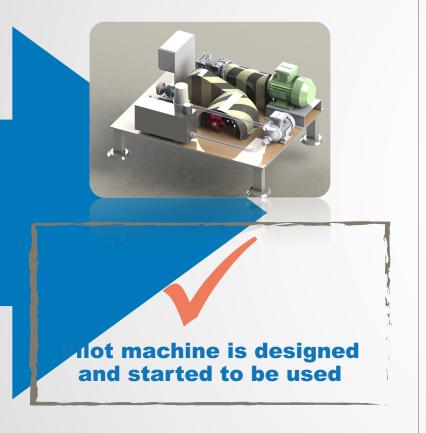
TürkTraktör FORD OTOSAN





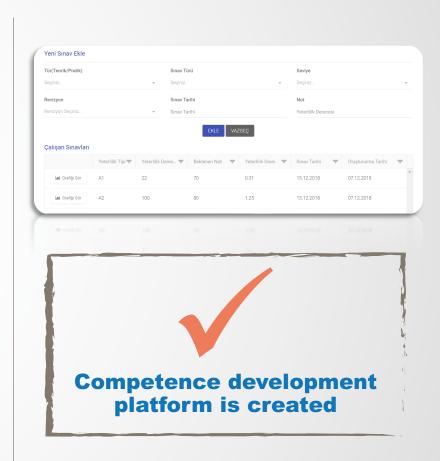


C1 Competence Managemet Model







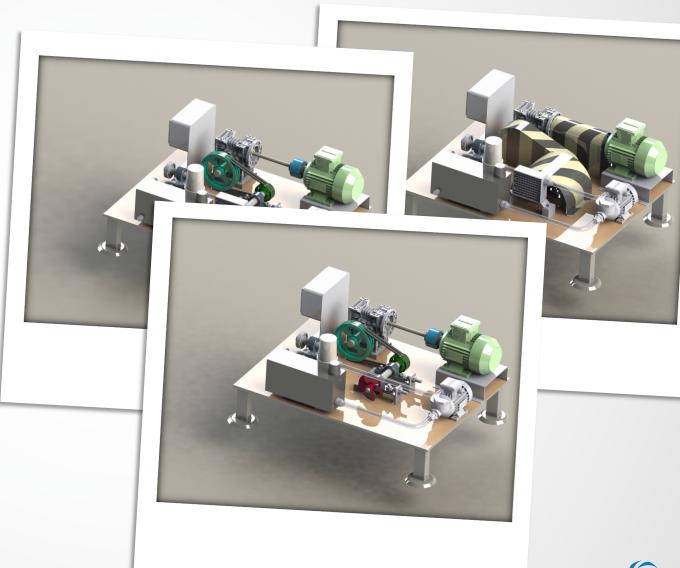






C1 - Competence Management / Prototype Machine

- Measurement of technical competencies without interruption of production
- Having chance to observe employee's development areas and being able to give feedback during the assessment
- Saving time due to the compact structure of the machine
- Providing a safe working environment in terms of occupational health safety
- Standardization of prototype machine and its dissemination in different enterprises

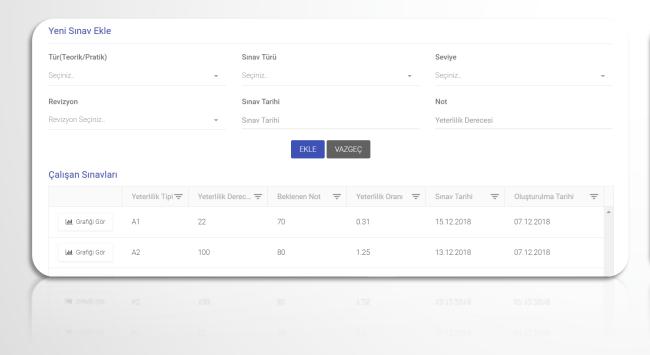


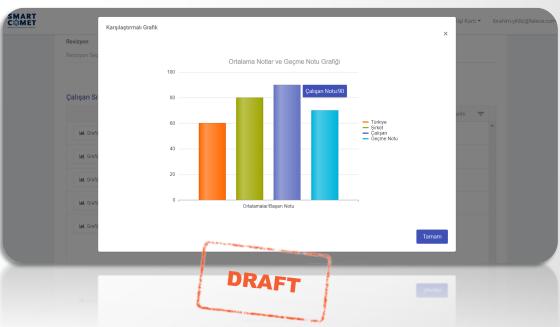




C1 – Competence Management Development Platform (IT Tool)

- Keeping employees' competencies under record
- Comparison of technical competencies with country average
- Identifying the strong and developmental aspects of employees
- Implementation of employee specific development program









C2 – School – Enterprise Cooperation Model



Germany:

- The school enterprise cooperation is supported by all stakeholders
- Professional chambers are the parties of the contracts that are signed by the students and employee's rights of the students are provided during their training
- Professional chambers take place in assesment exam team and dissertation jury
- The teachers update their skills by a training program every 5 years that is made obligatory by the government.



Spain:

- The enterprises that are implemented dual vocational training can hire all the postgraduate students
- Since the school number is low, the government's sources for vocational training is high. Commercial concern associated with the cooperation with enterprises is prevented.
- The students who attend vocational and technical schools are included in R&D works by the enterprises for innovation





C2 - School – Enterprise Cooperation Report



School – Enterprise Cooperation Report

Assesment of the Samples of the EU Countries Using ECVET Tools

A questionnaire conducted in 17 Vocational and Technical School by MEB MTEGM

Assesment of the Competent Management Practices of the EU Countries

Implementation of Vocational Competence Questionnaire in Germany and Spain

Practices of the Cooperation of School-Enterprise in Metal Sector and ECVET Tools

Country reports of project partners





Continous Vocational Education and Training (CVET)







Vocational Competence Journey





Effect of the Project and Sustainability

For metal industry;

Enhancing employability of the workforce by using the competence management systems based on learning outcomes of the ECVET, good quality of methods, provision of suitable skills and competence of their staff

For students and professionals;

- Supporting the workers' employability by acces to training programs, recognation of life-long learning and mobility through continuing vocational education and training (CVET)
- Supporting the ongoing preparation for the implementation of the National Vocational Training and Competence Systems ECVET in related countries.

The efficacy of the SMART COMET project will increase by different activities that will be done in cooperation with public or private sector in order to provide more flexibile vocational education and training according to the needs of the sector and extend life-long learning by continuing vocational education and training (CVET).

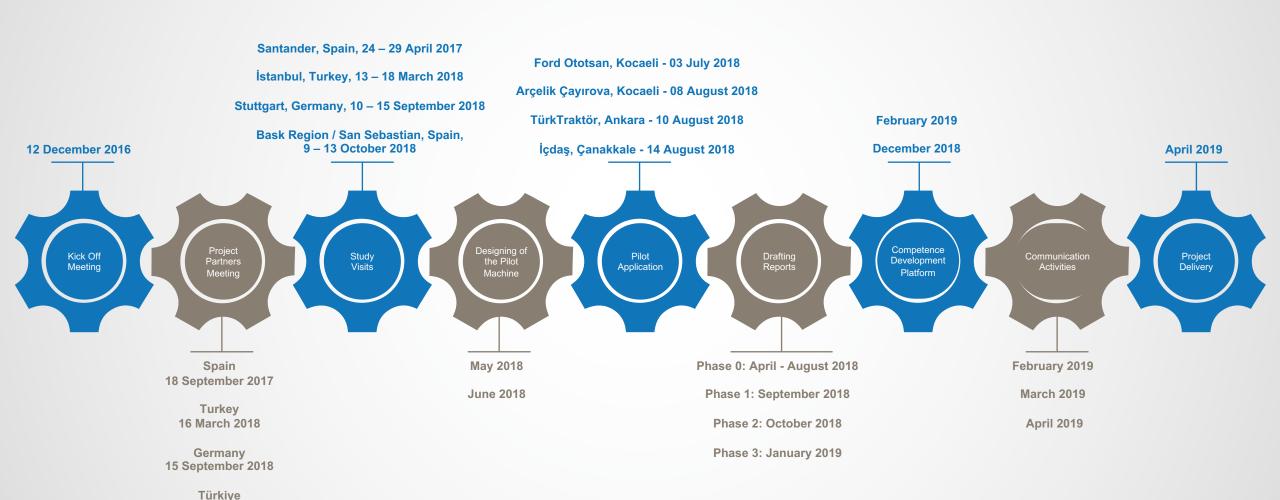






27 February 2019

Project Timeline (2017 / 2019)







Thank You